XP-002135370

AN - 1991-137460 [25]
AP - JP19890210762 19890817
CPY - DENY
DC - K06 X14
DR - 1423-U 1779-U
FS - CPI;EPI
IC - G21C3/60
MC - K05-B04A K06-C K08-F
- X14-B04A
PA - (DENY) DENRYOKU CHUO LAB
PN - JP3075589 A 19910329 DW199119 000pp
PR - JP19890210762 19890817
XA - C1991-059501
XIC - G21C-003/60
XP - N1991-105436
AB - J03075589 Plasm fusion redn. is applied to an actinoid cpd. using a reducing plasma. The result converts the actinoid cpd. into metal fuel. The plasma comprises; reducing plasma including hydrogen plasma or carbon plasma. Plasma dissolution operation is done under vacuum or inert gas atmos.. USE/ADVANTAGE - The method converts the actinoid cpd. including uranium oxide, plutonium oxide, thorium oxide, or their mixed oxide, fluoride, or chloride into metal fuel suitable for a fast breeder reactor. The plasma fusion redn. using the reducing plasma reduces the actinoid cpd. in a short time, removing oxygen as water or carbon monoxide. The result provides less-contamined metal in a short-time operation. The amt. of TRU waste is dramatically reduced compared to conventional conversion methods.
- (Dwg.1/1)
IW - CONVERT ACTINIDE COMPOUND METAL FUEL CONVERT REDUCE PLASMA LESS CONTAMINATE METAL SHORT TIME
IKW - CONVERT ACTINIDE COMPOUND METAL FUEL CONVERT REDUCE PLASMA LESS CONTAMINATE METAL SHORT TIME
NC - 001
OPD - 1989-08-17
ORD - 1991-03-29
PAW - (DENY) DENRYOKU CHUO LAB
TI - Conversion of actinide cpd. into metal fuel conversion - using reducing plasma, providing less-contaminated metal in short-time